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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/366,429	08/02/1999	YEVGENIYA LYAPUSTINA	49986-018(RS)	3057

29989 7590 04/05/2004

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EXAMINER

VO, TED T

ART UNIT	PAPER NUMBER
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2122

DATE MAILED: 04/05/2004

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/366,425**

Applicant(s) **LYAPUSTINA ET AL.**

Examiner **Ted T. Vo**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is in response to the Request Continuation Examination and the amendment filed on 3/3/04. The filing for continued examination under 37 CFR 1.114 is eligible, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Claims 1-21 are amended.

Claims 1-21 are pending in the application.

Response to Arguments

2. The amendment of Claims 2 and 9 meets the requirement of 35 U.S.C. 112, second paragraph. Accordingly, the rejection of Claims 2 and 9 under this statute is withdrawn.

The amendment of Claims 1-21 necessitated the new ground(s) of rejection presented in this Office action. With respect to the arguments to the amendment of Claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

Examiner would like to address to an Applicant's arguments to the limitation "*creating and storing in a mapping of macros to strings, an entry that defines an association between the macro and the hard coded string*", particularly, applicants argue that the purpose of REPLACE transform of Brody is used to replace hard coded string "ABC" contained in the program source code file with a macro name "XXX"; Brody does not teach or suggest creating an entry in mapping that defines an association between name "XXX" and hard coded string name "XXX" and the hard code string that the macro name "XXX" is replaced (Remarks page 13, first paragraph):

Examiner disagrees: The System Editor disclosed by Brody itself provides creating an entry and macros (Column 1, lines 13-15). Each macro is associated with a command in the system editor (mapping). When a user runs the editor program, it performs REPLACING (Mapping) a string (name of a command) in the System Editor in association with a macro in the system Editor. For example, system

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editor provides running Macro "FF" (FIG. 3b), or the like. String "FF" in the system editor (FIG. 3a) is mapped to hard coded string "FF" that runs that macro. In some cases, a string such as "DEL" (FIG 2) replace command DELeTe (macro). The C code such as #DEF in the C program (See FIG 4a) will define an association between the hard coded string name to the macro.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Brody, (US No. 5,495,613)

Given the interpretation of following claims in light of the specification:

As per claim 1:

- Brody discloses, "*A method for transforming character strings that are contained in computer program source code the method comprising the computer-implemented step of:*

automatically parsing computer program source code (see column 3, lines 43-45, 'system editor program') to identify a hard coded string (see column 3, lines 40-53, "DELETE", "FIND", etc.) that is contained in the computer program source code" (see FIG. 8a, reference character no. 808. See column 6, lines 14-19, "processing continues by parsing the group of records designated as inputs to the transform 808");

replacing the hard coded string contained in the computer program source code (see column 4, line 47, "REPLACE") with a macro that is uniquely associated with the hard coded string (see column 4,

line 47, "REP". See column 6, lines 16-19, 'The "group" for a transform is the same as for a core command and is illustrated and defined in the railroad diagram of Fibre 8b');

creating and storing in a mapping of macros to strings (see FIG. 6, EDITOR 600, LINK TO TRANSFORM 612), an entry that defines an association between the macro and the hard coded string (see FIG. 6, and see column 5, lines 47-53, referring to: 'a list of transform name 602 in the symbol file 606'); and

generating and storing in the computer program source code a reference (see FIG. 6, "SYMBOL FILE = SROURCE CODE 606) to the mapping of macros to strings (see FIG. 6, and see column 5, lines 47-53, referring to: 'the system library is referenced by the designation EDITOR/MACROS').

As per claim 2: Brody discloses,

The method as recited in Claim 1, wherein the step of automatically parsing the computer program source code to identify a hard coded string includes:

identifying one or more computer program source code files that contain one or more hard coded strings (see column 3, lines 43-45, 'system editor program', this teaches to identify hardcode strings [see column 3, lines 40-53, "DELETE", "FIND", etc.], that are contained in the system editor program); and

automatically parsing at least one of the one or more computer program source code files to identify the one or more hard coded strings while copying instructions from at least one of the one or more computer program source code files to an output (See FIG. 8a, reference numeral No. 808. See column 6, lines 14-19, "processing continues by parsing the group of records designated as inputs to the transform 808");

As per claim 3: Brody discloses,

The method as recited in Claim 1, wherein the step of automatically parsing the computer program source code to identify a hard coded string that is contained in the computer program source code includes automatically parsing the computer program source code to identify a hard coded string that is both contained in the computer program source code and does not already have a corresponding macro uniquely associated with the hard coded string (See the transforms of figure 8a. For example, if

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"REPLACE" was an identified string, then according to figure 8a, "REPLACE" is detected by the editor and replaced by "REP" - see step 804 "Is the Command A Transform?". This means that if the detection finds the command "REP", it performs the normal macro).

As per claim 4: Brody discloses,

The method as recited in claim 1, further comprising the computer-implemented steps of:
receiving a suggested macro for the identified hard coded string, and
generating the macro to replace the hard coded string contained in the computer program source code based upon the suggested macro (See "Accessing Transform", column 5, lines 44-62, "receive a transform command", "System editor accesses the compiled code of the transform stored in the library", "Once the name match is found.... calls the transform").

As per claim 5: Regarding the limitation, "*The method as recited in claim 1, further comprising the computer-implemented step of compiling the computer program source code to generate an executable, including substituting in the executable the hard coded string for each instance of the macro in the computer program source code*", Brody teaches compilation and the claim limitation since a macro or the editor is a program (see column 3, lines 40-53) and the editor (by its means "editor", such as the editor shown in FIG 6) allows a user to generate and to substitute an executable string.

As per claim 6: Brody teaches the claim limitation:

The method as recited in Claim 1, further comprising the computer-implemented steps of: parsing the computer program source code to locate a second hard coded string contained therein, wherein the second hard coded string is different than the hard coded string;

in response to locating the second hard coded string contained in the computer program source code, determining whether a macro was previously generated for the second hard coded string by searching the mapping; and generating a second macro uniquely associated with the second hard coded string only when a macro was not previously generated for the second hard coded string.

See FIG 9a. It shows the parsed commands (referring to "Parse Rest Of Command" 908), and FIG 4a, it shows the mapping strings. For example, an uppercase letter "A" will be generated corresponding to a matching lowercase letter "a".

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As per claims 7-8:

Regarding claims 7-8, the claim limitation has similar functionality as the limitation recited in the claim 1.

The claims are rejected in the same reason set forth in connecting to the rejection of claim 1.

As per claim 9:

Claim 9 is further limitation of claim 8. The claim limitation has the functionality corresponding to the functionality of claim 2. The claim is rejected in the same reason set forth in connecting to the rejection of claim 2.

As per claim 10:

Claim 10 is further limitation of claim 8. The claim limitation has the functionality corresponding to the functionality of claim 3. The claim is rejected in the same reason set forth in connecting to the rejection of claim 3.

As per claim 11:

Claim 11 is further limitation of claim 8. The claim limitation has the functionality corresponding to the functionality of claim 4. The claim is rejected in the same reason set forth in connecting to the rejection of claim 4.

As per claim 12:

Claim 12 is further limitation of claim 8. The claim limitation has the functionality corresponding to the functionality of claim 5. The claim is rejected in the same reason set forth in connecting to the rejection of claim 5.

As per claim 13:

Claim 13 is further limitation of claim 8. The claim limitation has the functionality corresponding to the functionality of claim 6. The claim is rejected in the same reason set forth in connecting to the rejection of claim 6.

As per claim 14:

Regarding claim 14, the claim limitation has similar functionality as recited in the claim 1. The claims are rejected in the same reason set forth in connecting to the rejection of claim 1.

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As per claim 15:

Claim 15 is further limitation of claim 14. The claim limitation has the functionality corresponding to the functionality of claim 2. The claim is rejected in the same reason set forth in connecting to the rejection of claim 2.

As per claim 16:

Claim 16 is further limitation of claim 14. The claim limitation has the functionality corresponding to the functionality of claim 3. The claim is rejected in the same reason set forth in connecting to the rejection of claim 3.

As per claim 17:

Claim 17 is further limitation of claim 14. The claim limitation has the functionality corresponding to the functionality of claim 4. The claim is rejected in the same reason set forth in connecting to the rejection of claim 4.

As per claim 18:

Claim 18 is further limitation of claim 14. The claim limitation has the functionality corresponding to the functionality of claim 5. The claim is rejected in the same reason set forth in connecting to the rejection of claim 5.

As per claim 19:

Claim 19 is further limitation of claim 14. The claim limitation has the functionality corresponding to the functionality of claim 6. The claim is rejected in the same reason set forth in connecting to the rejection of claim 6.

As per claims 20-21:

Regarding claims 20-21, the claim limitation has similar functionality as the limitation recited in the claim 1. The claims are rejected in the same reason set forth in connecting to the rejection of claim 1.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (703) 308-9049. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM ET. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam, can be reached on (703) 305-4552.

The fax phone numbers:

(703) 872-9306 (for formal communication intended for entry);

(703) 746-5429 (for informal or draft communication, please label "PROPOSED" or "DRAFT").

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

TED T. VO

Patent Examiner
Art Unit: 2122
April 2, 2004